

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

PCT

see form PCT/ISA/220

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY  
(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/EP2004/050966

International filing date (day/month/year)  
01.06.2004

Priority date (day/month/year)  
13.06.2003

International Patent Classification (IPC) or both national classification and IPC  
C11D3/386, C11D1/12, C11D1/08

Applicant  
LAMBERTI SPA

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 86.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  
Fax: +31 70 340 - 3016

Authorized Officer

Grittern, A

Telephone No. +31 70 340-2459



BEST AVAILABLE COPY

BEST AVAILABLE COPY

**10/560145**International application No.  
PCT/EP2004/050966**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY****IAP13 Rec'd PCT/PTO 09 DEC 2005****Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**International application No.  
PCT/EP2004/050966

---

**Box No. II Priority**

---

1. ☒ The following document has not been furnished:☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a)).☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

---

**Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

---

1. Statement

Novelty (N)	Yes: Claims	1-13
	No: Claims	
Inventive step (IS)	Yes: Claims	1-13
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-13
	No: Claims	

2. Citations and explanations

see separate sheet

**10/560145****WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

**IAP13 Rec'd PCT/PTO 09 DEC 2005**  
PCT/EP2004/050968**Re Item V****Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

Reference is made to the following documents:

D1: WO-A-8605187

D2: US-A-6121225

D3: EP-A-554943

D4: XP939060 (ESTERICI ALCILPOLIGLUCOSIDI (EUCAROL APG ESTERI). PER REALIZZARE DETERGENTI COSMETICI NATURALI, FUNZIONALI, DELICATI ED ECOLOGICI )  
COSMETIC NEWS, Vol. 108, 1996 (p. 183-186)

1. The document **D1** is regarded as being the closest prior art to the subject-matter of claim 1 , and shows (the references in parentheses applying to this document): a liquid detergent composition comprising an enzyme, an alkylpolyglycoside surfactant and an anionic co-surfactant for enzyme stabilization (see table II, claims 1-4, 12,16) The subject-matter of claim 1 differs from this known D1 in that the composition comprises an anionic glycoside surfactant. Therefore the subject-matter of claim 1 is novel over **D1** (Art. 33 (2) PCT).

2. The problem to be solved by the present invention may be regarded as to provide an aqueous liquid detergent composition comprising stabilized enzyme, and wherein the enzyme is not or less inactivated by the presence of anionic surfactants The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: None of the cited documents reveals that anionic esters of alkylpolyglycosides as claimed in present claim 1 of the application show favourable characteristics with regard to enzyme stability and enzyme activity.  
Claims 2-7 are dependent on claim 1 and as such also meets the requirements of the PCT with respect to novelty and inventive step.

3. Independent claim 8 is also novel and inventive because none of the cited documents shows a process for making an aqueous liquid detergent composition comprising an enzyme and anionic alkylpolyglycoside surfactant.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

**PCT/EP2004/050966**

Consequently dependent claims 9 -13 are also new and inventive.